

BIOGRAPHICAL SKETCH

NAME: Deborah Burgin

POSITION TITLE: Graduate Student

EDUCATION/TRAINING

Institution	Degree	Year	Field of Study
Wesley College University of North Carolina	B.S. Ph.D.	1996 2003	Environmental Science Toxicology

PROFESSIONAL EXPERIENCE:

Research Assistantship US EPA, 8/96-1/97; 6/98-present. Advisor: L. Birnbaum, Responsible for Transgenic animal colony. Designed, conducted and evaluated studies of the toxicity of dioxins and PCBs at environmentally-relevant and food safety-relevant levels using TEQ and markers of oxidative stress.

Research Internship UNC School of Public Health, 4/97-10/97. Advisor: J. Swenberg, Responsible for developing a quantitative GC-MS assay for the DNA adduct etheno-adenine using Good Laboratory Practices (GLP).

Research Internships DuPont-Merck Pharmaceuticals, 5/95-9/95; 5/96-8/96
Responsible for risk assessment data on several proprietary compounds to support product registration and product development for multiple therapeutic areas. Responsible for creation and maintenance of MSDS bank.

Environmental Field Technician The Good Earth Corp., 12/92-5/96
Responsible for collection and lab analysis of field samples, evaluating and reporting results. Also responsible for Wesley College Underground Storage Tank removal project.

PROFESSIONAL SOCIETIES:

North Carolina Society of Toxicology
Genotoxicity and Environmental Mutagenesis Society
Research Triangle Chapter-Society for Risk Analysis
Alpha Chi National Honor Society

SELECTED AWARDS AND HONORS:

SOT Regulatory and Safety Evaluation Specialty Section Student Award, Nashville, 2002
SOT Regulatory and Safety Evaluation Specialty Section Student Award, San Francisco 2001
Graduate Student Best Paper Award, ASPET, Division of Toxicology, 1999 Washington, DC FASEB Conference
EPA Pre-doctoral Research Training Grant, 1998
NIEHS Research Training Grant, 1996

INVITED LECTURES/SYMPOSIA:

ASSISTANCE/LEADERSHIP PROVIDED TO THE SCIENTIFIC COMMUNITY:

Co-founder and Steering Committee Member, EPA Trainee Organization. 1999-present
Symposium Organizer/Chairperson – NIEHS Science Fair. May 2002, Research Triangle Park, NC
Scientist in the Classroom Education Volunteer, 2002

ASSISTANCE/LEADERSHIP PROVIDED TO THE AGENCY:

PUBLICATIONS (From January 1, 1998 to present, out of a total of __16_ publications):

Smialowicz RJ, **Burgin DE**, Williams W, Diliberto JJ, Birnbaum LS (2003). CYP1A2 is not required for 2,3,7,8-Tetrachlorodibenzo-*p*-Dioxin-Induced Immunosuppression. *Pending*.

Burgin DE, Diliberto JJ, Derr-Yellin EC, Kannan N, Kodavanti PR, Birnbaum LS (2001) Differential Effects of two lots of Aroclor 1254 on enzyme induction, thyroid hormones, and oxidative stress. *Env Health Perspect* **109**(11): 1163-1168.

Kodavanti PR, Kannan N, Yamashita N, Derr-Yellin EC, Ward TR, **Burgin DE**, Tilson HA, Birnbaum LS (2001) Differential effects of two lots of Aroclor 1254: congener-specific analysis and neurochemical end points. *Env Health Perspect*. **109**(11): 1153-1161.

Diliberto JJ, **Burgin DE**, Birnbaum LS. (1999). Effects of CYP1A2 on disposition of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin, 2,3,7,8-pentachlorodibenzofuran, and 2,2',4,4',5,5'-hexachlorobiphenyl in CYP1A2 knockout and parental (C57Bl/6N and 129/Sv) strains of mice. *Toxicol Appl Pharmacol*. **159**(1): 52-64.

Review Articles, Extended Abstracts and Conference Papers

Burgin DE, Diliberto JJ, Birnbaum LS (2003). Comparing Environmentally Relevant PCBs to TCDD. *Toxicol Sci*. **72** (S1): 364.

Smialowicz RJ, **Burgin DE**, Williams W, Diliberto JJ, Birnbaum LS (2003). CYP1A2 is not required for 2,3,7,8-Tetrachlorodibenzo-*p*-Dioxin-Induced Immunosuppression. *Toxicol Sci*. **72** (S1) 403.

Burgin DE, Diliberto JJ, Birnbaum LS (2002). Comparing Mixtures of Dioxin-Like and Non Dioxin-Like PCBs to TCDD. *Organohalogen Compounds* **55**: 375-378.

Burgin DE, Diliberto JJ, Birnbaum LS (2002). Comparing Mixtures of Dioxin-Like and Non Dioxin-Like PCBs to TCDD. *Toxicol Sci*. **66** (1S): 171.

Burgin DE (2002). Book Review: PCBs: Recent Advances in Environmental Toxicology and Health Effects. *International J Toxicol*. **21**: 511-512.

Burgin DE, Diliberto JJ, Birnbaum LS (2001). 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD)-mediated oxidative stress in Female CYP1A2 Knockout (CYP1A2^{-/-}) Mice. *Toxicol Sci*. **60**(1): 442.

Burgin DE, Diliberto JJ, Birnbaum LS. (2000) Effects of Two Lots of Aroclor 1254 on Hepatic Retinoid Concentration in Rats. *Organohalogen Compounds* **49**: 221-224.

Kodavanti PRS, Kannan N, Yamashita N, Derr-Yellin EC, Ward TR, **Burgin DE**, Tilson HA, Birnbaum LS. (2000) Differential Effects of Two Lots of Aroclor 1254: Congener Analysis and Neurochemical Endpoints. *Organohalogen Compounds* **49**: 303-306.

Burgin DE, Diliberto JJ, Kodavanti PRS, Birnbaum LS. (2000) Use of Two Aroclors to Evaluate TEQ and Oxidative Stress Predictors. *Toxicol Sci* **54**(1): 181.

Burgin DE, Diliberto JJ, Kodavanti PRS, Birnbaum LS (1999). Differential Toxicities of Two Lots of Aroclor 1254. *Organohalogen Compounds* **42**: 301-304.

Burgin DE, Diliberto JJ, Derr-Yellin EC, Birnbaum LS, Kodavanti PRS. (1999) Differential Effects of Aroclor 1254 with Two Lot Numbers: Hepatic Enzyme Induction and Circulating Thyroid Hormone Levels. *Toxicol Sci* **48** (1S): 277-278.